

Chapter 2

Units and Measurements

Solutions

SECTION - A

Objective Type Questions

1. The base quantity among the following is

- (1) Speed (2) Weight (3) Length (4) Area

Sol. Answer (3)

There are seven base quantities,

- (i) Mass (ii) Length (iii) Time (iv) Current (v) Amount of substance (vi) Luminous intensity (vii) Temperature

2. Which of the following is not a unit of time?

- (1) Second (2) Minute (3) Hour (4) Light year

Sol. Answer (4)

Light year is the unit of distance

$$1 \text{ light year} = 9.46 \times 10^{15} \text{ m}$$

3. One astronomical unit is a distance equal to

- (1) $9.46 \times 10^{15} \text{ m}$ (2) $1.496 \times 10^{11} \text{ m}$ (3) $3 \times 10^8 \text{ m}$ (4) $3.08 \times 10^{16} \text{ m}$

Sol. Answer (2)

One astronomical unit is the average distance between earth and sun

$$1 \text{ astronomical unit (AU)} = 1.496 \times 10^{11} \text{ m}$$

4. The volume of a cube having sides 1.2 m is appropriately expressed as

- (1) $1.728 \times 10^6 \text{ cm}^3$ (2) $1.7 \times 10^6 \text{ cm}^3$ (3) $1.8 \times 10^6 \text{ cm}^3$ (4) $1.73 \times 10^6 \text{ cm}^3$

Sol. Answer (2)

The volume of cube is V

$$V = (1.2 \text{ m})^3 = 1.728 \times 10^6 \text{ cm}^3$$

$$V = 1.7 \times 10^6 \text{ cm}^3$$

Answer should be reported in minimum number of significant figures.

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